

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method for measuring a concentration of a material in a ~~solution~~ solution, the method comprising the steps of:
  - i measuring an optical rotation of a ~~solution~~ sample of the solution;
  - ii treating the ~~solution~~ sample of the solution with a reactive agent that ~~is reactive~~ reacts with the material ~~and is thereby sufficient~~ to alter the optical rotation of the sample of the solution;
  - iii measuring the optical rotation of the sample of the solution after the treatment with the reactive agent to ascertain ~~the~~ a difference that said treatment has made; and
  - iv calculating the concentration of the material by reference of said difference to a suitable standard.
2. (Previously Presented) The method according to claim 1, wherein the concentration of the material is measured in a sugar solution.
3. (Previously Presented) The method according to claim 1, wherein the material is optically active.
4. (Previously Presented) The method according to claim 3, wherein the material is dextran or raffinose.
5. (Previously Presented) The method according to claim 4, wherein the material is dextran and the reactive agent is dextranase.
6. (Previously Presented) The method according to claim 1, further comprising a step of treating the sample of the solution with a second reactive agent.

7. (Previously Presented) The method according to claim 1, wherein the reactive agent is provided on a solid support.

8. (Currently Amended) The method according to claim 1, wherein the ~~samples~~ sample of the solution is purified with diatomaceous earth having a median particle size of less than 19.3 microns prior to ~~a polarimetric analysis~~ measuring the optical rotation.

9. (Previously Presented) The method according to claim 1, wherein the reactive agent is dextranase or  $\alpha$ -galactosidase on a solid support.

10. (Cancelled)

11. (Currently Amended) A method for a polarimetric analysis of a ~~solution~~ sample of a solution at near IR wavelengths, the method comprising the steps of:

- i treating the ~~solution~~ sample of the solution with diatomaceous earth having a median particle size of less than 19.3 microns;
- ii measuring an optical rotation of the ~~solution~~ sample of the solution;
- iii treating the ~~solution~~ sample of the solution with a reactive agent that ~~is reactive~~ reacts with a material in the sample of the solution and, thereby, is sufficient to alter the optical rotation of the sample of the solution;
- iv measuring the optical rotation of the sample of the solution after the treatment with the reactive agent; and
- v calculating ~~the~~ a concentration of the material by reference to a suitable standard.

12. (Previously Presented) The method according to claim 11, wherein the diatomaceous earth is a fine grading of diatomaceous earth or a functional equivalent.

13-14. (Cancelled).